

Title (en)

TOILET DEVICE

Title (de)

TOILETTENVORRICHTUNG

Title (fr)

DISPOSITIF DE TOILETTES

Publication

EP 4124697 A1 20230201 (EN)

Application

EP 22186651 A 20220725

Priority

JP 2021125142 A 20210730

Abstract (en)

An object is to provide a toilet device (500) capable of more reliably detecting a failure of a temperature sensor. A toilet device (500) includes: a nozzle (30) that discharges water toward a private part of a human body; a flow path (40) connecting a water supply source (WS) and the nozzle (30); an instantaneous heat exchanger (50) that is provided in the flow path (40) and warms water supplied from the water supply source (WS); a first temperature sensor (60) that is provided downstream of the instantaneous heat exchanger (50) in the flow path (40) and detects a temperature of water; a second temperature sensor (65) that is provided downstream of the first temperature sensor (60) in the flow path (40) and detects a temperature of water; and a control unit (70) that determines whether the first temperature sensor (60) or the second temperature sensor (65) has failed, characterized in that when a difference between a first temperature detected by the first temperature sensor (60) and a second temperature detected by the second temperature sensor (65) is equal to or larger than a predetermined value, the control unit (70) determines that the first temperature sensor (60) or the second temperature sensor (65) has failed.

IPC 8 full level

E03D 9/08 (2006.01)

CPC (source: EP)

E03D 9/08 (2013.01)

Citation (applicant)

JP 2019132005 A 20190808 - TOTO LTD

Citation (search report)

- [XAYI] JP 6801803 B1 20201216
- [XI] JP 2020153067 A 20200924 - TOTO LTD
- [Y] JP 2012046969 A 20120308 - PANASONIC CORP
- [A] EP 3461961 A1 20190403 - TOTO LTD [JP]
- [A] JP 2017115298 A 20170629 - AISIN SEIKI
- [A] JP 2020033830 A 20200305 - TOTO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4124697 A1 20230201; CN 115680086 A 20230203; JP 2023020018 A 20230209

DOCDB simple family (application)

EP 22186651 A 20220725; CN 202210856251 A 20220712; JP 2021125142 A 20210730